

Intelligent Waterway Systems (IWS)

PRINCIPAL INVESTIGATOR:

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PROJECT DESCRIPTION:

The Coast Guard R&D program has identified Intelligent Waterways Systems (IWS) as an investment area. The R&D program intends to commit R&D resources to help fill CG performance gaps in this area. We have analyzed many CG business and strategic plans to help find the opportunities for the development of IWS products. A recurring theme has been the need for better information exchange.

PROGRESS TO DATE: We have analyzed Coast Guard performance gaps and have established R&D product lines to frame our project selection and resource decisions. Several projects are underway and three more have begun under IWS. Consideration of the entire investment area has made it easier to exploit the interactions and synergies between the projects. The value of individual projects that are seen as an important piece of the whole IWS vision is substantially greater.

FUTURE PLANS: We will continue to look for high return opportunities in Intelligent Waterways and try to develop products to address them.

PRODUCTS: The following interrelated projects are part of the IWS investment area:

- **AidMix AtoN User Survey** - Description of results of AtoN User survey
- **AIS Demonstration project** - status update on the AIS standards and SF Bay demonstration project
- **Buoy Information Network** - development of information on the potential business impact of instrumenting selected AtoN to support condition based maintenance. (new project)
- **Next GENERation NAVaid Research** – examination of the possible future of aids to navigation.
- **Waterway Information Network** - Internet protocols and Marine Information Markup Language development